TABLE 6-1						
Transportation-Related Land Use STRATEGY PACKAGES for URBAN AREAS						
STRATEGY DESCRIPTION	Urban Level 1 (Performance Goal:* <10,000 annual VMT/HH)	Urban Level 2 (Performance Goal:* 10,000 - 13,000 VMT/HH/yr.)	Urban Level 3 (Performance Goal:* 13,000 - 16,000 VMT/HH/yr.)	SUPPORTIVE FACTORS		

1. Strengthen Downtowns Single or predominant city center that incorporates a primary employ- ment center, with supporting housing, commercial, and region-serving public/cultural uses	Locate significant retail, office, conference, housing, public service and entertainment activities downtown.	Same as for Urban Level 1	Same as for Urban Level 1	 Direct pedestrian routes to surrounding neighborhoods Pedestrian facilities within the downtown Excellent local and regional transit connections Commercial buildings oriented to the sidewalk
2. Develop Concentrated Activity Centers Primary employment concentrated in a limited number of carefully planned centers with functionally- integrated complementary uses, including residential units	The number of Concentrated Activity Centers will vary with the size of the jurisdiction and the metropolitan area.	Same as for Urban Level 1	Same as for Urban Level 1	 Auto-oriented uses discouraged for internal circulation Pedestrian facilities Provision of services for employees Transit service Proximity to residential areas

^{*} Performance Goal Level: Average Vehicle Miles Traveled per Household per Year

TABL	Ε	6-1
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Transportation-Related Land Use STRATEGY PACKAGES for URBAN AREAS

STRATEGY DESCRIPTION

Urban Level 1 (Performance Goal:* <10,000 annual VMT/HH) Urban Level 2 (Performance Goal:* 10,000 - 13,000 VMT/HH/yr.) Urban Level 3 (Performance Goal:* 13,000 - 16,000 VMT/HH/yr.)

SUPPORTIVE FACTORS

3. Encourage Mixed-Use	Goals for larger si		Goals for larger s		Goals for larger si			
Development	floor area:		floor area:		floor area:		-	Pedestrian and bicycle
-								facilities
Mixed-use	Office center:		Office center:		Office center:			
residential and	- Office	45%	- Office	40%	- Office	35%	-	Interconnected street
commercial	- Retail	10%	- Retail	10%	- Retail	10%		pattern
development.	- Public	5%	- Public	5%	- Public	5%		
Vertical and			- Residential	5%	- Residential	10%	-	Services within
horizontal mixed-								walking and bicycling
use (e.g., within	Retail-cultural cer	iter:	Retail-cultural cei	nter:	Retail-cultural cer	nter:		distance of workplaces
and between	- Retail, hotel,		- Retail, hotel,		- Retail, hotel,			(1/4 to 1/2 mile)
buildings)	entertainment	30%	entertainment	25%	entertainment	25%		
	- Office	10%	- Office	10%	- Office	10%		
	- Public	10%	- Public	10%	- Public	10%		
	- Residential	5%	- Residential	10%	- Residential	10%		
	Neighborhood cei	nter:	Neighborhood ce	nter:	Neighborhood cei	nter:		
	- Residential	20%	- Residential	20%	- Residential	30%		
	- Retail	15%	- Retail	15%	- Retail	15%		
	- Public	15%	- Public	15%	- Public	15%		
	- Office	10%	- Office	10%				
	Residential area:		Residential area:		Residential area:			
	- Residential	30%	- Residential	35%	- Residential	40%		
	- Retail	10%	- Retail	10%	- Retail	10%		
	- Public	10%	- Public	10%	- Public	10%		
	- Office	5%	- Office	5%				
* Performance Goal Level: Ave	•		Urban Strategies Chapter 6		"Trans	•		elated Land Use Strategies to

TABLE 6-1						
Transportation-Related Land Use STRATEGY PACKAGES for URBAN AREAS						
	<u>Urban Level 1</u>	<u> Urban Level 2</u>	<u> Urban Level 3</u>			
STRATEGY	(Performance Goal:*	(Performance Goal:*	(Performance Goal:*	SUPPORTIVE		
DESCRIPTION	<10,000 annual	10,000 - 13,000	13,000 - 16,000	FACTORS		
	VMT/HH)	VMT/HH/yr.)	VMT/HH/yr.)			

4. Encourage Infill and Densification Infill development creates clusters of higher residential density and adds employment to jobs-poor urbanized areas	Density at a minimum of 32 or more dwelling units/net residential acre, on average.	Density at a minimum of 22 or more dwelling units/net residential acre, on average.	Density at a minimum of 18 or more dwelling units/net residential acre, on average.	 Pedestrian and bicycle facilities Interconnected streets Employment centers and retail services near residential clusters Transit service to residential clusters
5. Increase Density Near Transit Corridors Compact residential and commercial uses within 1/4 to 1/2 mile of major transit corridors	Residential density: minimum of 50 dwelling units/net residential acre, on average. Commercial intensity: minimum of 330 employees per net commercial acre, except theaters and hotels. (Floor Area Ratio (FAR) of 2.0).2	Residential density: minimum of 32 dwelling units/net residential acre, on average. Commercial intensity: minimum of 310 employees per net commercial acre, except theaters and hotels. (FAR of 1.9).	Residential density: minimum of 22 dwelling units/net residential acre, on average. Commercial intensity: minimum of 290 employees per net commercial acre, except theaters and hotels. (FAR of 1.8).	Pedestrian facilities 15-min. transit ³ headways or less, especially in peak periods Multiple bus routes Interconnected streets New auto-oriented uses discouraged along corridor

¹ number of dwelling units per residentially-zoned acre (excluding commercial and other uses, streets, open space, etc.)

² **FAR** = 'Floor Area Ratio' - the ratio of building floor area to the area of the parcel or lot, including parking areas.

³ Transit headway = frequency of transit service to a particular location.

* Performance Goal Level: Average Vehicle

Miles Traveled per Household per Year

Chapter 6

TABLE 6-1 Transportation-Related Land Use STRATEGY PACKAGES for URBAN AREAS				
STRATEGY DESCRIPTION	Urban Level 1 (Performance Goal:* <10,000 annual VMT/HH)	Urban Level 2 (Performance Goal:* 10,000 - 13,000 VMT/HH/yr.)	Urban Level 3 (Performance Goal:* 13,000 - 16,000 VMT/HH/yr.)	SUPPORTIVE FACTORS

6. Increase Density	Residential density:	Residential density:	Residential density:		
Near Transit	At least 70 dwelling	At least 50 dwelling	At least 40 dwelling	-	Pedestrian facilities
Stations	units/net residential	units/net residential	units/net residential	-	15-min transit
Compact	acre, on average.	acre, on average.	acre, on average.		headways or less
residential and				-	New auto-oriented uses
commercial uses	Commercial intensity:	Commercial intensity:	Commercial intensity:		discouraged near
within 1/4 to 1/2	minimum of <u>360</u>	minimum of 340	minimum of 330		stations
mile of significant	employees per net	employees per net	employees per net		
stations	commercial acre,	commercial acre,	commercial acre,		
	except theaters and	except theaters and	except theaters and		
	hotels. (Floor Area	hotels.	hotels. (FAR about		
	Ratio (FAR): 2.2)	(FAR about <u>2.1</u>)	<u>2.0</u>)		
7. Provide	Design features	Design features :	Design features:	-	Neighborhood
Pedestrian	include:				services within 1/2
Facilities	- crosswalks and	same as for Urban	same as for Urban		mile of most
	pedestrian-actuated	Level 1	Level 1		residences
Direct, accessible	traffic signals			-	Direct connections for
pedestrian routes	- wide sidewalks (5-				pedestrians and
to encourage	10 ft)				bicycles
walking	- protection from fast			-	Interconnected street
	vehicular traffic				pattern
	- short block-faces			-	Routes that link
	- minimal building				compact, clustered
	setbacks				development
	- on-street entries to			-	Traffic calming
	buildings				measures

^{*} Performance Goal Level: Average Vehicle Miles Traveled per Household per Year

TABLE 6-1						
Transportation-Related Land Use STRATEGY PACKAGES for URBAN AREAS						
	<u>Urban Level 1</u>	<u> Urban Level 2</u>	<u>Urban Level 3</u>			
STRATEGY	(Performance Goal:*	(Performance Goal:*	(Performance Goal:*	SUPPORTIVE		
DESCRIPTION	<10,000 annual	10,000 - 13,000	13,000 - 16,000	FACTORS		
	VMT/HH)	VMT/HH/yr.)	VMT/HH/yr.)			

8. Develop Interconnected Travel Network Regular grid or other inter- connected street system	Encourage multiple streets over isolated, hierarchical multi-lane arterials	Same as for Urban Level 1	Same as for Urban Level 1	Pedestrian/bicycle connectionsShort blocks
9. Provide Strategic Parking Facilities Reduced parking supply to reflect the increased transit use and walking/bicycling occurring as a result of implemented strategies. Management of parking should vary by land use type and proximity to transit service. Parking should facilitate, not inhibit, walking and transit use.	 Design features include: Workplace parking managed at all locations Supply does not exceed demand On-street parking controlled Parking shared among uses Priority parking for bicycles, carpools, vanpools and 'zeroemission' vehicles 	Same as for Urban Level 1	Same as for Urban Level 1	 Pedestrian and bicycle facilities Mixed uses within walking distance Transit service (amount varies by situation)

^{*} Performance Goal Level: Average Vehicle Miles Traveled per Household per Year

TABLE 6-1a

Case Study Examples of URBAN COMMUNITIES

SAMPLE COMMUNITY	REGIONAL LOCATION	AVERAGE VMT Per Household Per Year	PERFORMANCE GOALS: Average Vehicle Miles of Travel per Household per Year
San Francisco (downtown and nearby areas)	San Francisco (SF) Bay Area	5,500	Urban Level 1: (<10,000)
Sacramento (central area)	Sacramento	10,100	Urban Level 2:
San Francisco (total)	SF Bay Area	11,300	(10,000
Berkeley (central area)	SF Bay Area	12,500	to 13,000)
Beverly Hills (southwestern)	Los Angeles	13,000	
Rockridge District (Oakland)	SF Bay Area	14,300	Urban Level 3:
Santa Monica (southern area)	Los Angeles	14,700	(13,001
Long Beach (southern area)	Los Angeles	15,300	to 16,000)
San Diego (Uptown area)	San Diego	15,500	

^{*} Sources: JHK & Associates, *Transportation-Related Land Use Strategies to Minimize Mobile Source Emissions*, 1995, Table 5-2. Source of community data: Dr. John Holtzclaw, *Using Residential Patterns and Transit to Decrease Auto Dependence and Costs*, June 1994. (Community data was grouped and annotated by JHK & Associates and ARB staff.)